

EG4[®] LIFEPOWER4 12V LITHIUM BATTERY



EG4 LiFePower4 batteries offer second to none price to performance. Get peace of mind knowing these batteries are designed to last more than 7000 deep charge and discharge cycles; beyond 15 years with an 80% depth of discharge daily!

BUILT-IN BMS

**5.12 kWh
STORAGE
CAPACITY**

**5 YEAR
WARRANTY**

CLOSED LOOP COMMUNICATIONS

Compatible with EG4, Schneider, and Growatt inverters.

PC MONITORING SOFTWARE

See real-time statistics of your battery.

PARALLEL UP TO 16 BATTERIES

Get the most power possible! Up to 81.9 kWh while maintaining BMS communications.

DUAL ON-BOARD FIRE ARRESTORS & BUILT-IN CIRCUIT BREAKER

Offers fail-safe operation in high-risk environments and protects against rare hardware failure when using high voltage solar charge controllers.

RACK-MOUNT DESIGN

4U server rack mounting makes the battery convenient to store and use.

T E C H N I C A L S P E C I F I C A T I O N S

MODULE OPERATING PARAMETERS

TOTAL ENERGY STORAGE	5.12kWh
VOLTAGE	12.8V
CAPACITY	400Ah
CHARGING VOLTAGE (BULK/ABSORB)	14.0V (+/- 0.2V)
FLOAT	13.5V (+/- 0.2V)
LOW DC CUTOFF	11.8-11.4V (Depending on load – start high, lower if needed)
MAX. CHARGING CURRENT	200A (<100A recommended)
MAX. DISCHARGING CURRENT	200A

ENVIRONMENTAL PARAMETERS

CHARGING RANGE	32°F - 113°F (0°C - 45°C)
DISCHARGING RANGE	-4°F - 122°F (-20°C - 55°C)
STORAGE RANGE (OPTIMAL)	32°F - 122°F (0°C - 45°C)
INGRESS PROTECTION	IP21
OPERATING ALTITUDE	<9843ft. (3000m)

CHARGING/DISCHARGING PARAMETERS

CHARGE	SPEC	DELAY	RECOVERY
CELL VOLTAGE PROTECTION	3.8V	1 sec	3.45V
MODULE VOLTAGE PROTECTION	15.0V	1 sec	13.8V
CHARGE OVER CURRENT 1	>220A	10 sec	
CHARGE OVER CURRENT 2	≥250A	3 sec	
TEMPERATURE PROTECTION	<23°F or >167°F (<-5°C or >75°C)	1 sec	>41°F or <149°F >5°C or <65°C

DISCHARGE	SPEC	DELAY	RECOVERY
CELL VOLTAGE PROTECTION	2.3V	1 sec	3.1V
MODULE VOLTAGE PROTECTION	9.6V	1 sec	12.0V
DISCHARGE OVER CURRENT 1	>220A	30 sec	60 sec
DISCHARGE OVER CURRENT 2	>380A	3 sec	60 sec
SHORT-CIRCUIT	>775A	.1 ms	
TEMPERATURE PROTECTION	<-4°F or >167°F (<-20°C or >75°C)	1 sec	>14°F or <149°F (>-10°C or <65°C)

BMS	PARAMETER		CONDITION
PCB TEMPERATURE PROTECTION	>221°F (>105°C)	Delay: 1 sec	Recovery: <176°F (<80°C)
CELL BALANCE	100mA	Passive Balance	Cell Voltage Difference: >40mV
TEMPERATURE ACCURACY	3%	Cycle Measurement	Measuring Range -40°F - 212°F -40°C to 100°C
VOLTAGE ACCURACY	0.5%	Cycle Measurement	For Cells & Module
CURRENT ACCURACY	3%	Cycle Measurement	Measuring Range: -200 - 200A
SOC	5%	-	Integral Calculation
POWER CONSUMPTION	Sleep & Off Mode	<300uA Delay: 1 sec	Storage/Transport
	Operating Mode	<14mA	Charging/Discharging
COMMUNICATION PORTS	RS485		Can be Customized

PRODUCT DIMENSIONS

UNIT DIMENSIONS (H×W×D)	6.1 in.×17.4 in.×18.5 in. (155mm×442mm×470mm)
UNIT WEIGHT	102lbs. (46.3kg)